Science Lit.

SUBJECT INDEX*

Abronia mellifera 785
Acanthocephalus *van-cleavei* 724
Achene characters, of Scirpus....533
Adenostoma sparsifolium 106
Agrostis 779
Allocrangonyx pellucidus 687
Amanoa *potamophila* 475
Amphibians, Arizona 342
Tioga Co., N. Y....360
Amphipoda, freshwater 683
Anisaxia 403
Anura, sexual behavior of....242
Apheloria coriacea 713
Apocrangonyx *subtilis* 711
Ardisia *amanuensis* 485
glomerata 486
Wedelii 486
Arizona, Palmer's collection....768
Armadillos, eastern Texas....379
Aster chilensis 455
adscendens 458
bernardinus 461
euadscendens 460
Hallii 462
typicus 457
coerulescens 435
laetevirens 437
typicus 435
Douglasii 450
foliaceus 429
apricus 446
Cusickii 443
frondeus 442
Lyallii 443
typicus 441
Greatai 450
Jessicae 448
occidentalis 462
intermedius 465
typicus 463
yosemitanus 467
oregonus 454
Bactrurus brachycaudus 693
mucronatus 693
Bat, Rafinesque's 797
Boleosoma longimanum 229
nigrum olmstedi 229
Breidleria arcuata *americana*....528
Bufo americanus 617
fowleri 616
woodhousii 617
Bullfrogs, tagged 239

Cabin Run Forest, Ohio.... 89
Calamagrostis 779
Calamovilfa 779
Calicynorta bimaculata 643
Calyptranthes *cuneifolia* 478
Carex 42
Carunculina parva 621
Carya aquatica 499
glabra megacarpa 504
illinoensis 501
lecontei 503
ludoviciana 504
myristicaeformis 499
nomenclature of 493
texana 502
arkansana 502
villosa 503
tomentosa 500
Cecropia adenopus 785
Censuses, small-mammal 545
Chaos chaos 252
Chiococca *belizensis* 492
Cordia *belizensis* 488
Crane-flies, North American 147
Crangonyx *anomalus* 687
antennatus 690
forbesi 689
gracilis gracilis 691
packardii 691
hobbsi 690
obliquus 689
serratus 689
Cranial characters, of
dog-coyote hybrid 371
Crotalaria *belizensis* 473
Crotalus lepidus klauberi....607
triseriatus pricei 607
Cyllene caryae 180
robiniae 180
Cyperaceae, Saskatchewan 42

Dicranota *engelmannia* 164
integriloba 162
Duke forest 406

Eleocharis *Lundellii* 470
Ephemerida 397
Erioptera *hygropetrica* 172
Erythroxylon *multiflorum* 474
Eubranchipus serratus 210
Eugenia *arisioides* 479
flavoviridis 479
mouririoides 480
oblanceifolia 480
Eumeces septentrionalis septentrionalis..591
Euphorbia *Lundelliana* 476
Eurybunus *pallidus* 654
riversi 655

Fen, northwestern Iowa 787
Ficimia streckeri 796
Fish, food of....223
Fish management 257
Food habits, of armadillos....379
of turtles 257

* Names of new genera, species, etc., indicated by italics.

Food-reaction, of Chaos chaos....252
Foraminifera, in zonal paleontology....137
Forestiera *Wrightiana* 487
Formica moki 183
grundmanni 184
Fox squirrels 588

Gammarus fasciatus 687
limnaeus 684
minus 685
Gonomyia *extensivena* 167
gothicana 166
Grasshopper, fungus parasite of....761
Ground squirrels, western U. S....375
Gunnison Valley, Colorado 147

Haplocladium microphyllum *lignicola*..528
Hedyotis michauxii 786
Hermaphroditism, in Carunculina parva 621
Hickory, Arkansas black....502
black 502
Coast pignut 504
Louisiana 504
mockernut 500
nutmeg 409
Valley black 503
water 409
Holometabola 403
Hyalella azteca 683
Hybrid, dog-coyote 371
Hybridization, in ground squirrels....375
Hydroperla 666
Hypericum *aphyllum* 477

Insects, origin of wings....381
Intergradation, in ground squirrels....375
Isogenoides 657, 658
dorata 665
elongatus 660
frontalis 660
hudsonicus 662
olivaceus 663
varians 664
Isogenus 658
Isopterygium micans *latifolium*....528

King snakes, western 245
getulus group 245

Laevigato-sporites *Thiessenii* 125
Leiobunum bimaculatum 649
oregonense 649
trimaculatum 650
Lepidostrobus aristatus 542
arrectus 542
imbricatus 539
Liatris aspera 34
Deamii 31
albina 31
fallacior 40
Gladewitzii 37
ligulistylis 39
leucantha 39
novae-angliae 29
albiflora 29
Nieuwlandii 31
alba 31
trilisioides 31
Rosendahlii 40
scariosa 27
spheroidea 35
asperifolia 36
Benkei 35
salutans 37
squarrulosa 33
Weaveri 38
Lichens, Indiana 117
Limnological variables 186
Limnophila aldrichi *alticrista*....165
Limonia *ctenopyga* 156
Linum *spinescens* 474
Lobotes surinamensis 365
Loeflingia texana 785

Macrostomum *ontarioense* 425
Malea pilosa 484
Merostachys *pauciflorus* 469
Mesosoma *roewerí* 651
texanum 652
Microfossils, coal 119
Millipede, hothouse 670
mull-forming 713
Mink frog 242
Moles, of Texas....797
Mosses, list of....526
northern Florida 509
Mussel, fresh water....621
Myrcia *longicaudata* 481
Schippii 482

Natrix kirtlandii 313
Neea choriophylla *hirtella* 473
Needles, Ponderosa Pine....55
Nycticeius humeralis 797

Odonata 398
Orchestia uhleri 684
Ormosia *hallahani* 175
libella 177
megarhabda 174
suffumata 178
Orthomorpha gracilis 670
Orthopteroidea 402
Oscillatoriaceae 51
Oviposition, in mink frog....242

Pachystima 792
Palaeodictyoptera 401
Palaeoptera 395
Palmer, Edward 768
Paxistima 792
Canbyi 794
Krautteri 794
macrophylla 794
myrtifolia 793

Schaefferi 794
Pecan 501
bitter 503
Pelage, of fox squirrels....588
Pennsylvanian, of Montana....732
Pennsylvanian system, Ohio....121
Phacelia Barnebyana 18
cephalotes 6
demissa 7
heterotricha 8
typica 7
filiformis 14
geraniifolia 23
glechomifolia 13
incana 20
indecora 12
laxiflora 25
Lemmonii 15
mustelina 22
nevadensis 19
Parishii 16
Peirsoniana 21
perityloides 24
pulchella 1, 8
Gooddingii 10
sabulonum 12
typica 10
rotundifolia 1, 21
saxicola 17
suavedens 4
Keckii 5
typica 7
Phalangids, from U. S....643
Phoebe *mayana* 473
Phoma *Stenobothri* 761, 766
Phytoplankton 196
Pittsburgh coal 119
Plant microfossils, Ohio....119
Plants, new, from Texas....469
North American 785
Plecoptera, North American 657
Polyergus lucidus 185
Pomeroy coal 119
Ponderosa Pine 55
Portulaca coronata 785
Preserve, Edmund Niles Huyck.... 72
Protocys bradleyi 669
dolobrata 669
Protodonata 398
Protolophus *rossi* 652
Pseudelephantopus spicatus 786
Psidium *Gentlei* 483
Punctati-sporites *grandiverrucosus* 127
parvipunctatus 127

Quercus Prinus 783

Rana catesbeiana 239
septentrionalis 242
Rattlesnake, green rock....607
Price's 607
Reptiles, Arizona 342
Tioga Co., N. Y....360
Rhabdomastix *leptodoma* 170
neolurida 171
setigera 172
Roupala *repanda* 472
Russelia *pubescens* 491

Salmo gairdnerii iridens....625
trutta 625
Salvelinus fontinalis fontinalis....625
Sapium *nitidum* 477
Schippii 477
Schizothrix *californica* 52
Dailyi 53
Macbridei 51
Stricklandii 51
Scirpus, N. Amer. species....533
supinus 472
Sciurus niger rufiventer....588
Scleria *areolata* 471
Sclerobunus brunneus 645
cavicolens 646
Silver Lake Fen, Iowa....787
Skink, black-banded 591
Slave maker ant, shining....185
Soil animals 406
Solanum *ovandense* 490
tacanense 490
Sponge spicules, siliceous....732
Stygobromus *exilis* 697
herteropodus 701
iowae 703
mackini 695
onondagaensis 699
putealis 701
smithi 703
spinosus 697
vitreus 697
Stygonectes *balconis* 707
flagellatus 705
Symploca *Kieneri* 53
Synpleonia alabamensis 711
americana 711
clantoni 711
emarginata 707
hayi 709
pizzinii 709
Synurella bifurca 695
chamberlaini 695
dentata 693

Taracus *nigripes* 647
Taxiphyllum *mariannae* 528
Tempskya, notes on....133
Tetraclea *viscida* 489
Tetraonchinae 730
Thamnosma texanum *purpureum*....475
Tibouchina *belizensis* 483
Tipula *gothicana* 149
rabiosa 154
Tipuloidea 147
Toads, ventral markings....615
Trematodes, monogenetic 730
Triple Tail, natural history of....365

Triquitrites *spinosus* 128
Trout, brook 624
brown 624
rainbow 624
survival time of....624
Turbellarian fauna, New York....425
Turtles, index 308
of Michigan 257

Vegetation, E. N. Huyck Preserve.... 72
Venational types, origin of....381

Water snakes, North American....313
Wings, origin of....381
Wisconsin grasses 779

Zooplankton 193

AUTHORS' INDEX

Adams, Bradford C. 137
Alexander, Charles P. 147
Anderson, W. A. 787
Andrews, Henry N....133
Aronson, Lester R. 242

Baker, Rollin H. 379
Baughman, J. L. 365
Baumgartner, Luther L. 588
Beetle, Alan A. 533
Blair, Albert P. 615
Breckenridge, W. J. 591

Causey, Nell B. 670
Clark, Clarence F. 223
Clausen, Robert T. 360
Cobbe, Thomas J. 89
Coker, R. E. 802
Cole, A. C., Jr. 183
Conant, Roger 313
Croizat, Leon 475, 476, 477
Cronquist, Arthur 429
Cross, A. T. 539, 542

Davidson, F. A. 200
Davis, W. B. 797
Dexter, Ralph W. 210
Doan, Kenneth H. 544
Drouet, Francis 51
Eaton, Theodore H., Jr....713

Fenton, Carroll Lane 800
Ferguson, Frederick F. 210
Ferguson, M. S. 425
Fitzgerald, Laurence R....761
Forbes, William T. M....381
Fosberg, F. R. 785
Fraser, W. P. 42

Goldstein, Lewis C. 252
Goodnight, Clarence J. 643
Goodnight, Marie L. 643

Hall, E. Raymond....371, 375
Hanson, John F. 657
Helmers, Austin E. 55
Herre, Albert W. C. T....117
Hoskins, J. H....539, 542
Howell, John Thomas 1
Hubricht, Leslie 683
Hughes, R. Chester 724

Ingram, William M. 239

Jones, Joseph W., Jr. 185
Just, Theodor....543, 544, 804

Kauffeld, Carl F. 342, 607
Kearney, Thomas H. 775
King, Edwin W....180
King, Joseph E. 624
Kirkpatrick, Charles M. 797
Kosanke, R. M. 119

Lachner, Ernest A. 229
Lagler, Karl F. 257
LaGrave, D. R. 730
Ledingham, G. F. 42
Little, Elbert L., Jr....493
Lundell, Cyrus L....469

Marion, Lois H. 106
Martin, G. W. 544
McVaugh, Rogers 775
Miller, Alden H. 256
Mizelle, J. D. 730
Mohr, Carl O. 545
Montagu, M. F. Ashley....799
Moore, George A. 724
Mulaik, Dorothea 796
Mulaik, Stanley 796

Odum, Eugene P. 72
O'Shaughnessy, R. P. 730

Palmer, Ernest J. 783
Pearse, A. S. 406
Pennak, Robert W. 186
Powers, E. Lawrence, Jr....800

Raney, Edward C. 229, 239

Schmidt, Karl P. 256
Schonhorst, Ruth 509
Scott, Harold W. 732
Shinners, L. H. 27, 779
Smith, Hobart M....245
Svenson, Henry K....470
Swallen, Jason R....469

Tepe, William C....621

Wheeler, Louis C. 792
Wiggins, Ira L....804
Wilding, J. L. 200